

Title (en)
LENTICULAR IMAGE GENERATION

Title (de)
LINSENRASTERBILDERZEUGUNG

Title (fr)
GÉNÉRATION D'IMAGES LENTICULAIRES

Publication
EP 4246966 A2 20230920 (EN)

Application
EP 23167352 A 20210608

Priority

- US 202063036945 P 20200609
- EP 21736848 A 20210608
- US 2021036472 W 20210608

Abstract (en)
Methods and apparatus for generating images to be displayed on lenticular displays. In these methods, a fixed mesh is generated offline, and in real-time texture information is mapped to the fixed mesh. In an offline process, texture and 3D mesh information for an object is used to render UV map views for multiple viewpoints of the object, view maps are generated from display calibration data, and a lenticular to UV map is generated from the UV map views and view maps. In real-time, texture information is captured, and a composite process is performed that generates a lenticular image for multiple viewpoints by sampling pixels from the texture based on the lenticular to UV map. The lenticular image is then displayed on the lenticular display. Detected positions of persons in the environment may be used to limit the number of viewpoints that are generated during the real-time composite process.

IPC 8 full level
H04N 13/305 (2018.01)

CPC (source: EP US)
G02B 27/017 (2013.01 - US); **G02B 30/27** (2020.01 - US); **G06F 3/011** (2013.01 - US); **G06T 15/005** (2013.01 - US); **H04N 13/117** (2018.04 - EP); **H04N 13/275** (2018.04 - US); **H04N 13/279** (2018.04 - EP); **H04N 13/282** (2018.04 - EP); **H04N 13/305** (2018.04 - EP); **H04N 13/351** (2018.04 - EP); **H04N 13/366** (2018.04 - EP); **H04N 13/239** (2018.04 - EP); **H04N 13/261** (2018.04 - EP); **H04N 13/344** (2018.04 - EP)

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BA ME

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KH MA MD TN

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WO 2021252532 A1 20211216; CN 116458153 A 20230718; EP 4173281 A1 20230503; EP 4246966 A2 20230920; EP 4246966 A3 20240221; US 2024201512 A1 20240620

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